



**Program of Study**

**Career Field: Industrial, Manufacturing, and Engineering Systems**

**Career Cluster: Architecture and Construction**

**Career Pathway: Design/Pre-Construction**



**Central Community College**

**DEGREE:**

Drafting- Design Technology Manufacturing CAD Technician Specialization

<http://www.cccneb.edu/igsbase/igstemplate.cfm?SRC=SP&SRCN=programchart2&GnavlD=20&SnavID=&TnavID=&cccProgramID=87&LS=&PS=&KS=>

	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	GENERAL ELECTIVES	PATHWAY ELECTIVE COURSES			EXTENDED LEARNING SCHOOL/COMMUNITY	
HIGH SCHOOL	9	English/Language Arts I	Algebra I	Physical Science	Geography	World Languages and Cultures Physical Education Health Education Entrepreneurship Information Technology App. I CAD (Computer Aided Drafting) Construction Principles of Construction	Intro to the Built Environment			School Activities: SkillsUSA, OPPD/NPPD Power Drive, Math Club, MATHCOUNTS	
	10	English/Language Arts II	Geometry	Biology	World History		Plus two from the following list: Language of Architecture & Construction Principles of Design & Pre-construction Applications in Design & Pre-construction			Community Activities: Connect with architects in your area, Do home repair projects, Learn about the history of the buildings in your community, Part-time employment available within this career cluster	
	11	English/Language Arts III	Algebra II	Chemistry	American History		Intro to Architecture Technology Housing & Home Furnishings				
	12	English/Language Arts IV	Intro to Statistics Descrete Math Pre-Calc	Physics	American Government or Economcis						
CENTRAL COMMUNITY COLLEGE		COMMUNICATIONS	MATH/SCIENCE	PERSONAL DEVELOPMENT	SOC/ BEHAVIORAL SCIENCES	DEGREE REQUIREMENTS	MAJOR COURSES				
	13 and 14	Select 3 hours from the following:  Applied Writing Eng. Composition Writing & Research	Select 3 hours from the following:  Technical Mathematics College Algebra Analytic Geometry & Calculus I	Select 3 hours from the following:  American History to 1877 American History after 1877	Select 3 hours from the following:  American Government Human Relations Intro to Sociology	5 hours of electives	Fundamentals of Design	Manufacturing Design Documentation	Prototype Development	Basic CAD Operations	Student Team Project I
							Welding Project Design	Production Drawing	Sheet Metal Project Design	Geometric Dimensioning & Tolerancing	Precision Measurement
							Parametric Design in Solids	Student Team Project II			